GenCore version 5.1.3

OM protein - protein search, using sw model

Run on: January 15, 2003, 17:21:18 ; Search time 14 Seconds
(without alignments)
418.226 Million cell updates/sec

Title: US-09-509-283B-2
Perfect score: 1082
Sequence: 1 MKSGLWYFFLFCLRIKVLTG.....YMFMRAVNTAKKSRLTDVTL 199

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	163	15.1	218	3	US-08-228-208A-20	Sequence 20, Appl
2	146.5	13.5	225	1	US-08-505-058-4	Sequence 4, Appli
3	146.5	13.5	225	2	US-08-459-818-24	Sequence 24, Appl
4	146.5	13.5	225	2	US-08-889-666-24	Sequence 24, Appl
5	146.5	13.5	225	2	US-08-465-078-24	Sequence 24, Appl
6	146.5	13.5	225	2	US-08-725-776-24	Sequence 24, Appl
7	146.5	13.5	225	2	US-08-488-062-24	Sequence 24, Appl
8	140	12.9	218	3	US-08-228-208A-19	Sequence 19, Appl
9	134.5	12.4	220	3	US-08-228-208A-21	Sequence 21, Appl
10	134	12.4	225	1	US-08-505-058-3	Sequence 3, Appli
11	134	12.4	225	2	US-08-459-818-23	Sequence 23, Appl
12	134	12.4	225	2	US-08-889-666-23	Sequence 23, Appl
13	134	12.4	225	2	US-08-465-078-23	Sequence 23, Appl
14	134	12.4	225	2	US-08-725-776-23	Sequence 23, Appl
15	134	12.4	225	2	US-08-488-062-23	Sequence 23, Appl
16	126	11.6	223	1	US-08-505-058-5	Sequence 5, Appli
17	126	11.6	223	2	US-08-459-818-25	Sequence 25, Appl
18	126	11.6	223	2	US-08-889-666-25	Sequence 25, Appl
19	126	11.6	223	2	US-08-465-078-25	Sequence 25, Appl
20	126	11.6	223	2	US-08-725-776-25	Sequence 25, Appl
21	126	11.6	223	2	US-08-488-062-25	Sequence 25, Appl
22	120.5	11.1	367	3	US-08-630-172-19	Sequence 19, Appl
23	120.5	11.1	367	4	US-09-375-419-19	Sequence 19, Appl
24	119.5	11.0	134	3	US-08-630-172-3	Sequence 3, Appli
25	119.5	11.0	134	4	US-09-375-419-3	Sequence 3, Appli
26	110.5	10.2	110	4	US-09-460-384-33	Sequence 33, Appl
27	93	8.6	221	3	US-08-228-208A-22	Sequence 22, Appl
28	89.5	8.3	117	2	US-08-529-878B-39	Sequence 39, Appl
29	87	8.0	330	2	US-08-332-562A-81	Sequence 81, Appl
30	87	8.0	330	2	US-08-332-562A-134	Sequence 134, App
31	86.5	8.0	209	4	US-09-430-503-20	Sequence 20, Appl
32	84.5	7.8	209	4	US-09-430-503-18	Sequence 18, Appl
33	84.5	7.8	209	4	US-09-430-503-24	Sequence 24, Appl
34	84	7.8	223	3	US-08-228-208A-17	Sequence 17, Appl
35	84	7.8	283	2	US-08-332-562A-136	Sequence 136, App
36	82.5	7.6	209	4	US-09-430-503-22	Sequence 22, Appl
37	81.5	7.5	187	1	US-08-067-684-14	Sequence 14, Appl
38	81.5	7.5	187	1	US-08-008-898-14	Sequence 14, Appl
39	81.5	7.5	187	2	US-08-459-818-14	Sequence 14, Appl
40	81.5	7.5	187	2	US-08-889-666-14	Sequence 14, Appl
41	81.5	7.5	187	2	US-08-465-078-14	Sequence 14, Appl
42	81.5	7.5	187	2	US-08-725-776-14	Sequence 14, Appl
43	81.5	7.5	187	2	US-08-488-062-14	Sequence 14, Appl
44	81.5	7.5	187	3	US-08-228-208A-14	Sequence 14, Appl
45	81.5	7.5	187	5	PCT-US95-06726-36	Sequence 36, Appl

ALIGNMENTS

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RESULT 1
US-08-228-208A-20
; Sequence 20, Application US/08228208A
; Patent No. 6090914
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Wallace, Philip M.
;    TITLE OF INVENTION:  CTLA4/CD28Ig HYBRID FUSION
;    TITLE OF INVENTION:  PROTEINS AND USES THEREOF
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Boulevard, Suite 400
;      CITY:  Los Angeles
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/228,208A
;      FILING DATE:  15-APR-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/008,898
;      FILING DATE:  22-JAN-1993
;      APPLICATION NUMBER:  07/723,617
;      FILING DATE:  27-JUN-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-30US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310 445-1140
;      TELEFAX:  310 445-9031
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  20:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  218 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-228-208A-20
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  Query Match             15.1%;  Score 163;  DB 3;  Length 218;
  Best Local Similarity   26.5%;  Pred. No. 3.5e-11;
  Matches   41;  Conservative   31;  Mismatches   65;  Indels   18;  Gaps    7;

Qy      30 MFIFHNGGVQILCKYPD--IVQQFKMQLLKGGQILCDLTKTKGSGNTVSIKSLK-----F 82
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Db      29 LLVYDNNEVSLSCRYSYNLLAKEFRASLYKG--VNSDVEVCVGNGNFTYQPQFRPNVGFN 86

Qy      83 CHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLC---C 137
           |     | :|:| |:||| :| : ||| : :  |||:       |  :|| |  ||
Db      87 CDGNFDNETVTFRLWNLDVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHAQT 146

Qy     138 QLKFWLPIGCAAFVVVC--ILGCILIC--WLTKKK 168
             | : |:   | |::|  :|  : :|  |   ::
Db     147 SPKLFWPLVVVAGVLLCYGLLYTVTLCIIWTNSRR 181


RESULT 2
U   `-505-058-4
;    uence 4, Application US/08505058
; Patent No. 5773253
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Peach, Robert
;    TITLE OF INVENTION:  CTLA4 Mutant Molecules and Uses Thereof
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/505,058
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/228,208
;      FILING DATE:  15-APR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436.30USI1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-505-058-4

  Query Match             13.5%;  Score 146.5;  DB 1;  Length 225;
  Best Local Similarity   26.2%;  Pred. No. 3.2e-09;
  Matches   42;  Conservative   31;  Mismatches   64;  Indels   23;  Gaps    9;

Qy      30 MFIFHNGGVQIL-CKYPD--IVQQFKMQLLKGGQILCDLTKT-KGSGNTVSIKSLK---- 81
           : :: |  |  | |:|    : ::|:  | ||  :  |: :   |:||       :
Db      30 LLVYDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCVGNGNFTYQPQFRPNVG 87

Qy      82 -FCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLC-- 136
            |>    | :|:| |:||| :| : ||| : :  |||:       |  :|| |  ||
Db      88 FNCDGNFDNETVTFRLWNLDVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147

Qy     137 ----CQLKFWLPIGCAAFVVVC--ILGCILIC--WLTKKK 168
                 | : |:   | |::|  :|  : :|  |   ::
Db     148 XXXQTSPKLFWPLVVVAGVLLCYGLLYTVTLCIIWTNSRR 187


RESULT 3
US-08-459-818-24
; Sequence 24, Application US/08459818
; Patent No. 5851795
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  FastSeq 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,818
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436.35US02
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-459-818-24

  Query Match             13.5%;  Score 146.5;  DB 2;  Length 225;
  Best Local Similarity   26.2%;  Pred. No. 3.2e-09;
  Matches   42;  Conservative   31;  Mismatches   64;  Indels   23;  Gaps    9;

Qy      30 MFIFHNGGVQIL-CKYPD--IVQQFKMQLLKGGQILCDLTKT-KGSGNTVSIKSLK---- 81
           : :: |  |  | |:|    : ::|:  | ||  :  |: :   |:||       :
Db      30 LLVYDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCVGNGNFTYQPQFRPNVG 87

Qy      82 -FCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLC-- 136
            |     | :|:| |:||| :| : ||| : :  |||:       |  :|| |  ||
Db      88 FNCDGNFDNETVTFRLWNLDVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147

Qy     137 ----CQLKFWLPIGCAAFVVVC--ILGCILIC--WLTKKK 168
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Db     148 XXXQTSPKLFWPLVVVAGVLLCYGLLYTVTLCIIWTNSRR 187


RESULT 4
US-08-889-666-24
; Sequence 24, Application US/08889666
; Patent No. 5885579
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
```

```
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,666
;      FILING DATE:  08-JUL-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-889-666-24

  Query Match             13.5%;  Score 146.5;  DB 2;  Length 225;
  Best Local Similarity   26.2%;  Pred. No. 3.2e-09;
  Matches   42;  Conservative   31;  Mismatches   64;  Indels   23;  Gaps    9;

Qy      30 MFIFHNGGVQIL-CKYPD--IVQQFKMQLLKGGQILCDLTKT-KGSGNTVSIKSLK---- 81
           : :: |  |  | |:|    : ::|:  | ||  :  |: :   |:||       :
Db      30 LLVYDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCVGNGNFTYQPQFRPNVG 87

Qy      82 -FCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLC-- 136
            |     | :|:| |:||| :| : ||| : :  |||:       |  :|| |  ||
Db      88 FNCDGNFDNETVTFRLWNLDVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147

Qy     137 ----CQLKFWLPIGCAAFVVVC--ILGCILIC--WLTKKK 168
                | : |:   | |::|  :|  : :|  |   ::
Db     148 XXXQTSPKLFWPLVVVAGVLLCYGLLYTVTLCIIWTNSRR 187


RESULT 5
US-08-465-078-24
; Sequence 24, Application US/08465078
; Patent No. 5885796
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/465,078
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-465-078-24

  Query Match             13.5%;  Score 146.5;  DB 2;  Length 225;
  Best Local Similarity   26.2%;  Pred. No. 3.2e-09;
  Matches   42;  Conservative   31;  Mismatches   64;  Indels   23;  Gaps    9;

Qy      30 MFIFHNGGVQIL-CKYPD--IVQQFKMQLLKGGQILCDLTKT-KGSGNTVSIKSLK---- 81
           : :: |  |  | |:|    : ::|:  | ||  :  |: :   |:||       :
Db      30 LLVYDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCVGNGNFTYQPQFRPNVG 87

Qy      82 -FCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLC-- 136
            |     | :|:| |:||| :| : ||| : :  |||:       |  :|| |  ||
Db      88 FNCDGNFDNETVTFRLWNLDVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147

Qy     137 ----CQLKFWLPIGCAAFVVVC--ILGCILIC--WLTKKK 168
                | : |:   | |::|  :|  : :|  |   ::
Db     148 XXXQTSPKLFWPLVVVAGVLLCYGLLYTVTLCIIWTNSRR 187


RESULT 6
US-08-725-776-24
; Sequence 24, Application US/08725776
; Patent No. 5968510
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
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;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/725,776
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-725-776-24

  Query Match             13.5%;  Score 146.5;  DB 2;  Length 225;
  Best Local Similarity   26.2%;  Pred. No. 3.2e-09;
  Matches   42;  Conservative   31;  Mismatches   64;  Indels   23;  Gaps    9;

Qy      30 MFIFHNGGVQIL-CKYPD--IVQQFKMQLLKGGQILCDLTKT-KGSGNTVSIKSLK---- 81
           : :: |  |  | |:|    : ::|:  | ||  :  |: :   |:||       :
Db      30 LLVYDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCVGNGNFTYQPQFRPNVG 87

Qy      82 -FCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLC-- 136
            |     | :|:| |:||| :| : ||| : :  |||:       |  :|| |  ||
Db      88 FNCDGNFDNETVTFRLWNLDVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147

Qy     137 ----CQLKFWLPIGCAAFVVVC--ILGCILIC--WLTKKK 168
                | : |:   | |::|  :|  : :|  |   ::
Db     148 XXXQTSPKLFWPLVVVAGVLLCYGLLYTVTLCIIWTNSRR 187


RESULT 7
US-08-488-062-24
; Sequence 24, Application US/08488062
; Patent No. 5977318
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/488,062
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  24:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-488-062-24

  Query Match             13.5%;  Score 146.5;  DB 2;  Length 225;
  Best Local Similarity   26.2%;  Pred. No. 3.2e-09;
  Matches   42;  Conservative   31;  Mismatches   64;  Indels   23;  Gaps    9;

Qy      30 MFIFHNGGVQIL-CKYPD--IVQQFKMQLLKGGQILCDLTKT-KGSGNTVSIKSLK---- 81
           : :: |  |  | |:|    : ::|:  | ||  :  |: :   |:||       :
Db      30 LLVYDNNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEVCVGNGNFTYQPQFRPNVG 87

Qy      82 -FCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLC-- 136
            |     | :|:| |:||| :| : ||| : :  |||:       |  :|| |  ||
Db      88 FNCDGNFDNETVTFRLWNLDVNHTDIYFCKIEVMYPPPYLDNEKSNGTIIHIKEKHLCHA 147

Qy     137 ----CQLKFWLPIGCAAFVVVC--ILGCILIC--WLTKKK 168
                | : |:   | |::|  :|  : :|  |   ::
Db     148 XXXQTSPKLFWPLVVVAGVLLCYGLLYTVTLCIIWTNSRR 187


RESULT 8
US-08-228-208A-19
; Sequence 19, Application US/08228208A
; Patent No. 6090914
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Wallace, Philip M.
;    TITLE OF INVENTION:  CTLA4/CD28Ig HYBRID FUSION
;    TITLE OF INVENTION:  PROTEINS AND USES THEREOF
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Boulevard, Suite 400
;      CITY:  Los Angeles
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/228,208A
;      FILING DATE:  15-APR-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/008,898
;      FILING DATE:  22-JAN-1993
;      APPLICATION NUMBER:  07/723,617
;      FILING DATE:  27-JUN-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-30US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310 445-1140
;      TELEFAX:  310 445-9031
```

```
;      TELEX:
;   INFORMATION FOR SEQ ID NO:  19:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  218 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:  unknown
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-228-208A-19

  Query Match             12.9%;  Score 140;  DB 3;  Length 218;
  Best Local Similarity   25.7%;  Pred. No. 1.8e-08;
  Matches   39;  Conservative   24;  Mismatches   61;  Indels   28;  Gaps    7;

Qy      38 VQILCKYPD--IVQQFKMQLLKGGQILCDLTKTKGSGNTVSIKSLKF-----CHSQLSNN 90
           |:: |:|    : ::|:  | ||  :  |:    |:||       :    . |     |
Db      37 VSLSCRYSYNLLAKEFRASLYKG--VNSDVEVCVGNGNFTYQPQFRSNAEFNCDGDFDNE 94

Qy      91 SVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLC----CQLKFWLP 144
           :|:| |:|| :|: ||| :    |||:    · |  :|| |  ||        ||
Db      95 TVTFRLWNLHVNHTDIYFCKIEFMYPPPYLDNERSNGTIIHIKEKHLCHTQSSPKLFW-- 152

Qy     145 IGCAAFVVVCILGC--------ILICWLTKKK 168
             | :||  :| |        : : |   ::
Db     153 ---ALYVVAGVLFCYGLLVTVALCVIWTNSRR 181


RESULT 9
US-08-228-208A-21
; Sequence 21, Application US/08228208A
; Patent No. 6090914
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Wallace, Philip M.
;    TITLE OF INVENTION:  CTLA4/CD28Ig HYBRID FUSION
;    TITLE OF INVENTION:  PROTEINS AND USES THEREOF
;    NUMBER OF SEQUENCES:  22
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Boulevard, Suite 400
;      CITY:  Los Angeles
;      STATE:  CA
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  DOS
;      SOFTWARE:  FastSEQ Version 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/228,208A
;      FILING DATE:  15-APR-1994
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/008,898
;      FILING DATE:  22-JAN-1993
;      APPLICATION NUMBER:  07/723,617
;      FILING DATE:  27-JUN-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-30US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310 445-1140
;      TELEFAX:  310 445-9031
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  21:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  220 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  unknown
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-228-208A-21

  Query Match             12.4%;  Score 134.5;  DB 3;  Length 220;
  Best Local Similarity   25.4%;  Pred. No. 7.9e-08;
  Matches   44;  Conservative   30;  Mismatches   74;  Indels   25;  Gaps    7;

Qy      30 MFIFHNGGVQILCKYPD--IVQQFKMQLLKGGQILCDLTKTKGSGN---TVSIKSLKFCH 84
           | : ::    : |||      ::|:  | ||     ::    |: :    |  |:   |
Db      28 MLVAYDNAYNLSCKYSYNLFSREFRASLHKGLDSAVEVCVVYGNYSQQLQVYSKTGFNCD 87

Qy      85 SQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--KVTLTGGYLHIYESQLCCQLKFW 142
           :| | ||:|:| ||  :  : ||| : :  |||:       |  :|:    ||    |
Db      88 GKLGNESVTFYLQNLYVNQTDIYFCKIEVMYPPPYLDNEKSNGTIIHVKGKHLCPSPLF- 146

Qy     143 LPIGCAAFVVVCILGCILIC-----------WLTKKKYSSSVHDPNGEYMFM 183
           |     | |: ::| :| |            |:  |: |  :|    :|| |
Db     147 -PGPSKPFWVLVVVGGVLACYSLLYTVAFIIFWVRSKR-SRLLH---SDYMNM 194


RESULT 10
US-08-505-058-3
; Sequence 3, Application US/08505058
; Patent No. 5773253
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Peach, Robert
;    TITLE OF INVENTION:  CTLA4 Mutant Molecules and Uses Thereof
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/505,058
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  08/228,208
;      FILING DATE:  15-APR-1994
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436.30USI1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-505-058-3

  Query Match             12.4%;  Score 134;  DB 1;  Length 225;
  Best Local Similarity   23.0%;  Pred. No. 9.3e-08;
  Matches   42;  Conservative   32;  Mismatches   77;  Indels   32;  Gaps    8;

Qy      11 FCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPD--IVQQFKMQLLKGGQILCDLTKT 68
           |  ::|  :|    :  ::: |    : |:|    : ::|:  | ||  :  |: :
```

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Db      12 FFXSVQVTENKILVKQSPLLYVDSNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEV 69

Qy      69 -KGSGNTVSIKSLKF-----CHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--K 120
           |:||       :       |     | :|:| |:||  :| : ||| :    |||:
Db      70 CVGNGNFTYQPQFRSNAEFNCDGDFDNETVTFRLWNLHVNHTDIYFCKIEFMYPPPYLDN 129

Qy     121 VTLTGGYLHIYESQLC-------CQLKFWLPIGCAAFVVVCILGC--------ILICWLT 165
             |  :|| |  ||           ||     | :||  :| |         : : |
Db     130 ERSNGTIIHIKEKHLCHTXXXQSSPKLFW-----ALYVVAGVLFCYGLLVTVALCVIWTN 184

Qy     166 KKK 168
           ::
Db     185 SRR 187


RESULT 11
US-08-459-818-23
; Sequence 23, Application US/08459818
; Patent No. 5851795
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  27
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  FastSeq 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/459,818
;      FILING DATE:  02-JUN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436.35US02
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-459-818-23

  Query Match             12.4%;  Score 134;  DB 2;  Length 225;
  Best Local Similarity   23.0%;  Pred. No. 9.3e-08;
  Matches   42;  Conservative   32;  Mismatches   77;  Indels   32;  Gaps    8;

Qy      11 FCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPD--IVQQFKMQLLKGGQILCDLTKT 68
           |   ::|   :|    :  :::  |    : |:|    : ::|:  | ||  :  |: :
Db      12 FFXSVQVTENKILVKQSPLLYVDSNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEV 69

Qy      69 -KGSGNTVSIKSLKF-----CHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--K 120
           |:||       :       |     | :|:| |:||  :| : ||| :    |||:
Db      70 CVGNGNFTYQPQFRSNAEFNCDGDFDNETVTFRLWNLHVNHTDIYFCKIEFMYPPPYLDN 129

Qy     121 VTLTGGYLHIYESQLC-------CQLKFWLPIGCAAFVVVCILGC--------ILICWLT 165
             |  :|| |  ||           ||     | :||  :| |         : : |
Db     130 ERSNGTIIHIKEKHLCHTXXXQSSPKLFW-----ALYVVAGVLFCYGLLVTVALCVIWTN 184

Qy     166 KKK 168
           ::
Db     185 SRR 187


RESULT 12
US-08-889-666-23
; Sequence 23, Application US/08889666
; Patent No. 5885579
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/889,666
;      FILING DATE:  08-JUL-1997
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-889-666-23

  Query Match             12.4%;  Score 134;  DB 2;  Length 225;
  Best Local Similarity   23.0%;  Pred. No. 9.3e-08;
  Matches   42;  Conservative   32;  Mismatches   77;  Indels   32;  Gaps    8;

Qy      11 FCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPD--IVQQFKMQLLKGGQILCDLTKT 68
           |   ::|   :|    :  :::  |    : |:|    : ::|:  | ||  :  |: :
Db      12 FFXSVQVTENKILVKQSPLLYVDSNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEV 69

Qy      69 -KGSGNTVSIKSLKF-----CHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--K 120
           |:||       :       |     | :|:| |:||  :| : ||| :    |||:
Db      70 CVGNGNFTYQPQFRSNAEFNCDGDFDNETVTFRLWNLHVNHTDIYFCKIEFMYPPPYLDN 129

Qy     121 VTLTGGYLHIYESQLC-------CQLKFWLPIGCAAFVVVCILGC--------ILICWLT 165
             |  :|| |  ||           ||     | :||  :| |         : : |
Db     130 ERSNGTIIHIKEKHLCHTXXXQSSPKLFW-----ALYVVAGVLFCYGLLVTVALCVIWTN 184

Qy     166 KKK 168
           ::
Db     185 SRR 187
```

```
RESULT 13
US-08-465-078-23
; Sequence 23, Application US/08465078
; Patent No. 5885796
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/465,078
;      FILING DATE:  05-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-465-078-23

  Query Match             12.4%;  Score 134;  DB 2;  Length 225;
  Best Local Similarity   23.0%;  Pred. No. 9.3e-08;
  Matches   42;  Conservative   32;  Mismatches   77;  Indels   32;  Gaps    8;

Qy      11 FCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPD--IVQQFKMQLLKGGQILCDLTKT 68
           |   ::|   :|    :  :::  |    : |:|    : ::|:  | ||  :  |: :
Db      12 FFXSVQVTENKILVKQSPLLYVDSNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEV 69

Qy      69 -KGSGNTVSIKSLKF-----CHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--K 120
            |:||  .   :      |    | :|:| |:||  :| : ||| :     |||:
Db      70 CVGNGNFTYQPQFRSNAEFNCDGDFDNETVTFRLWNLHVNHTDIYFCKIEFMYPPPYLDN 129

Qy     121 VTLTGGYLHIYESQLC-------CQLKFWLPIGCAAFVVVCILGC--------ILICWLT 165
           |  :|| |  ||          ||     | :||  :| |        : : |
Db     130 ERSNGTIIHIKEKHLCHTXXXQSSPKLFW-----ALYVVAGVLFCYGLLVTVALCVIWTN 184

Qy     166 KKK 168
           ::
Db     185 SRR 187


RESULT 14
US-08-725-776-23
; Sequence 23, Application US/08725776
; Patent No. 5968510
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/725,776
;      FILING DATE:
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-725-776-23

  Query Match             12.4%;  Score 134;  DB 2;  Length 225;
  Best Local Similarity   23.0%;  Pred. No. 9.3e-08;
  Matches   42;  Conservative   32;  Mismatches   77;  Indels   32;  Gaps    8;

Qy      11 FCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPD--IVQQFKMQLLKGGQILCDLTKT 68
           |   ::|   :|    :  :::  |    : |:|    : ::|:  | ||  :  |: :
Db      12 FFXSVQVTENKILVKQSPLLYVDSNEVXSLSCRYSYNLLAKEFRASLYKG--VNSDVXEV 69

Qy      69 -KGSGNTVSIKSLKF-----CHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF--K 120
            |:||  .   :      |    | :|:| |:||  :| : ||| :     |||:
Db      70 CVGNGNFTYQPQFRSNAEFNCDGDFDNETVTFRLWNLHVNHTDIYFCKIEFMYPPPYLDN 129

Qy     121 VTLTGGYLHIYESQLC-------CQLKFWLPIGCAAFVVVCILGC--------ILICWLT 165
           |  :|| |  ||          ||     | :||  :| |        : : |
Db     130 ERSNGTIIHIKEKHLCHTXXXQSSPKLFW-----ALYVVAGVLFCYGLLVTVALCVIWTN 184

Qy     166 KKK 168
           ::
Db     185 SRR 187


RESULT 15
US-08-488-062-23
; Sequence 23, Application US/08488062
; Patent No. 5977318
;  GENERAL INFORMATION:
;    APPLICANT:  Linsley, Peter S.
;    APPLICANT:  Ledbetter, Jeffrey A.
;    APPLICANT:  Damle, Nitin K.
```

```
;    APPLICANT:  Brady, William
;    APPLICANT:  Kiener, Peter A.
;    TITLE OF INVENTION:  CTLA4 Receptor and Uses Thereof
;    NUMBER OF SEQUENCES:  26
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: Merchant & Gould
;      STREET:  11150 Santa Monica Blvd., Suite 400
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  USA
;      ZIP:  90025
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/488,062
;      FILING DATE:  07-JUN-1995
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US 08/375390
;      FILING DATE:  18-JAN-1995
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Adriano, Sarah B.
;      REGISTRATION NUMBER:  34,470
;      REFERENCE/DOCKET NUMBER:  30436-35US01
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  310-445-1140
;      TELEFAX:  310-445-9031
;  INFORMATION FOR SEQ ID NO:  23:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  225 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-488-062-23

  Query Match             12.4%;  Score 134;  DB 2;  Length 225;
  Best Local Similarity   23.0%;  Pred. No. 9.3e-08;
  Matches   42;  Conservative   32;  Mismatches   77;  Indels   32;  Gaps    8;

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Job time : 16 secs
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GenCore version 5.1.3

OM protein - protein search, using sw model

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(without alignments)
359.620 Million cell updates/sec

Title: US-09-509-283B-2
Perfect score: 1082
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 120991 seqs, 19878514 residues

Total number of hits satisfying chosen parameters: 120991

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1082	100.0	199	9	US-10-107-868-2	Sequence 2, Appli
2	1082	100.0	199	12	US-10-107-828-2	Sequence 2, Appli
3	1082	100.0	199	12	US-10-107-907-2	Sequence 2, Appli
4	1067.5	98.7	198	9	US-09-972-524-2	Sequence 2, Appli
5	1067.5	98.7	198	9	US-09-823-307-2	Sequence 2, Appli
6	1066.5	98.6	198	9	US-09-989-545-12	Sequence 12, Appl
7	737.5	68.2	200	9	US-09-989-545-8	Sequence 8, Appli
8	737.5	68.2	200	9	US-09-989-545-10	Sequence 10, Appl
9	722.5	66.8	200	9	US-10-107-868-14	Sequence 14, Appl
10	722.5	66.8	200	12	US-10-107-828-14	Sequence 14, Appl
11	722.5	66.8	200	12	US-10-107-907-14	Sequence 14, Appl
12	701	64.8	200	9	US-10-107-868-13	Sequence 13, Appl
13	701	64.8	200	12	US-10-107-828-13	Sequence 13, Appl
14	701	64.8	200	12	US-10-107-907-13	Sequence 13, Appl
15	696	64.3	216	9	US-10-107-868-15	Sequence 15, Appl
16	696	64.3	216	9	US-10-107-868-23	Sequence 23, Appl
17	696	64.3	216	12	US-10-107-828-15	Sequence 15, Appl
18	696	64.3	216	12	US-10-107-828-23	Sequence 23, Appl
19	696	64.3	216	12	US-10-107-907-15	Sequence 15, Appl
20	696	64.3	216	12	US-10-107-907-23	Sequence 23, Appl
21	694.5	64.2	200	9	US-10-107-868-16	Sequence 16, Appl
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23	694.5	64.2	200	12	US-10-107-907-16	Sequence 16, Appl
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25	176	16.3	214	12	US-10-107-828-17	Sequence 17, Appl
26	176	16.3	214	12	US-10-107-907-17	Sequence 17, Appl
27	145.5	13.4	221	10	US-09-303-510-8	Sequence 8, Appli
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29	139.5	12.9	220	9	US-10-107-868-25	Sequence 25, Appl
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31	139.5	12.9	220	12	US-10-107-828-25	Sequence 25, Appl
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33	138	12.8	218	9	US-09-989-545-18	Sequence 18, Appl
34	89	8.2	305	10	US-09-771-730-119	Sequence 119, App
35	86.5	8.0	223	9	US-09-989-545-20	Sequence 20, Appl
36	86.5	8.0	223	9	US-10-211-207-5	Sequence 5, Appli
37	86	7.9	223	9	US-10-107-868-26	Sequence 26, Appl
38	86	7.9	223	9	US-09-989-545-21	Sequence 21, Appl
39	86	7.9	223	9	US-10-211-207-3	Sequence 3, Appli
40	86	7.9	223	12	US-10-107-828-26	Sequence 26, Appl
41	86	7.9	223	12	US-10-107-907-26	Sequence 26, Appl
42	81.5	7.5	212	9	US-10-057-288-12	Sequence 12, Appl
43	79.5	7.3	269	9	US-10-028-072-530	Sequence 530, App
44	79	7.3	168	10	US-09-845-899A-7	Sequence 7, Appli
45	78	7.2	231	10	US-09-862-027-36	Sequence 36, Appl

ALIGNMENTS

RESULT 1
US-10-107-868-2
; Sequence 2, Application US/10107868
; Patent No. US20020156242A1
; GENERAL INFORMATION:
; APPLICANT: Tamatani, Takuya
; APPLICANT: Tezuka, Katsunari
; TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
; TITLE OF INVENTION: ADHESION AND SIGNAL TRANSMISSION
; FILE REFERENCE: 06501-039002
; CURRENT APPLICATION NUMBER: US/10/107,868
; CURRENT FILING DATE: 2002-03-26
; PRIOR APPLICATION NUMBER: 09/561,308
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 09/383,551
; PRIOR FILING DATE: 1999-08-26
; PRIOR APPLICATION NUMBER: PCT/JP98/00837
; PRIOR FILING DATE: 1998-02-27
; PRIOR APPLICATION NUMBER: JAPAN 09-62290
; PRIOR FILING DATE: 1997-02-27
; PRIOR APPLICATION NUMBER: JAPAN 10-62217
; PRIOR FILING DATE: 1998-02-26
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 199
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-107-868-2

Query Match 100.0%; Score 1082; DB 9; Length 199;
Best Local Similarity 100.0%; Pred. No. 2.9e-101;
Matches 199; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
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; Sequence 2, Application US/10107828
; Patent No. US20020115831A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;  APPLICANT:  Tezuka, Katsunari
;  TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
;  TITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
;  CURRENT APPLICATION NUMBER: US/10/107,828
;  CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: US/09/561,308B
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
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; SEQ ID NO 2
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;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-107-828-2

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RESULT 3
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; Sequence 2, Application US/10107907
; Patent No. US20020151685A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;  APPLICANT:  Tezuka, Katsunari
;  TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
;  TITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
;  CURRENT APPLICATION NUMBER: US/10/107,907
;  CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: 09/561,308
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
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US-10-107-907-2

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RESULT 4
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; Patent No. US20020177191A1
; GENERAL INFORMATION:
;  APPLICANT: Kroczek, Richard
;  TITLE OF INVENTION: Methods for Treatment of Asthmatic Disorders
;  FILE REFERENCE: 7853-240
;  CURRENT APPLICATION NUMBER: US/09/972,524
;  CURRENT FILING DATE:  2001-10-04
;  PRIOR APPLICATION NUMBER: 09/509,283
;  PRIOR FILING DATE: 2000-08-11
;  NUMBER OF SEQ ID NOS: 4
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; SEQ ID NO 2
;   LENGTH: 198
;   TYPE: PRT
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US-09-972-524-2

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; Sequence 2, Application US/09823307
; Publication No. US20020182667A1
; GENERAL INFORMATION:
;  APPLICANT: Kroczek, Richard
;  TITLE OF INVENTION: Methods of Modulating T Lymphocyte Costimulation
;  FILE REFERENCE: 7853-235
;  CURRENT APPLICATION NUMBER: US/09/823,307
;  CURRENT FILING DATE:  2001-04-02
;  PRIOR APPLICATION NUMBER: 09/509,283
;  PRIOR FILING DATE: 2000-08-11
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: PatentIn version 3.0
; SEQ ID NO 2
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: 8F4
   09-823-307-2

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  Best Local Similarity   99.5%;  Pred. No. 8.2e-100;
  Matches  198;  Conservative    0;  Mismatches    0;  Indels    1;  Gaps    1;

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RESULT 6
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; Sequence 12, Application US/09989545
; Patent No. US20020164697A1
; GENERAL INFORMATION:
   APPLICANT: Lehar, Sophie
   APPLICANT:  Manning, Stephen
;  APPLICANT:  Coyle, Anthony J.
;  APPLICANT:  Gutierrez-Ramos, Jose-Carlos
;  TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses Thereof
;  FILE REFERENCE: 5800-10B
;  CURRENT APPLICATION NUMBER: US/09/989,545
;  CURRENT FILING DATE:  2001-11-20
;  PRIOR APPLICATION NUMBER: 09/168,229
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 09/258,670
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
;   LENGTH: 198
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-09-989-545-12

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RESULT 7
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; Sequence 8, Application US/09989545
; Patent No. US20020164697A1
; GENERAL INFORMATION:
;  APPLICANT: Lehar, Sophie
;  APPLICANT:  Manning, Stephen
;  APPLICANT:  Coyle, Anthony J.
;  APPLICANT:  Gutierrez-Ramos, Jose-Carlos
;  TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses There
;  FILE REFERENCE: 5800-10B
;  CURRENT APPLICATION NUMBER: US/09/989,545
;  CURRENT FILING DATE:  2001-11-20
;  PRIOR APPLICATION NUMBER: 09/168,229
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 09/258,670
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
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;   TYPE: PRT
;   ORGANISM: Mus sp.
US-09-989-545-8

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Qy      61 ILCDLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPFK 120
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Db      61 VLCELTKTKGSGNAVSIKNPMLCLYHLSNNSVSFFLNNPDSSQGSYYFCSLSIFDPPPFQ 120

Qy     121 V-TLTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGE 179
              |:|||||||||||||| |||:|||||||| : ||||| | :|||| |||||| |
Db     121 ERNLSGGYLHIYESQLCCQLKLWLPVGCAAFVVVLLFGCILIIWFSKKKYGSSVHDPNSE 180

Qy     180 YMFMRAVNTAKKSRLTDVT 198
           |||| |||| |||||  ||
Db     181 YMFMAAVNTNKKSRLAGVT 199


RESULT 8
US-09-989-545-10
; Sequence 10, Application US/09989545
; Patent No. US20020164697A1
; GENERAL INFORMATION:
;  APPLICANT: Lehar, Sophie
;  APPLICANT:  Manning, Stephen
;  APPLICANT:  Coyle, Anthony J.
;  APPLICANT:  Gutierrez-Ramos, Jose-Carlos
;  TITLE OF INVENTION: No. US20020164697A1el Th2-Specific Molecules and Uses Therec
;  FILE REFERENCE: 5800-10B
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;  CURRENT APPLICATION NUMBER: US/09/989,545
;  CURRENT FILING DATE:  2001-11-20
;  PRIOR APPLICATION NUMBER: 09/168,229
;  PRIOR FILING DATE: 1998-10-07
;  PRIOR APPLICATION NUMBER: 09/258,670
;  PRIOR FILING DATE: 1999-02-26
;  NUMBER OF SEQ ID NOS: 24
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Mus sp.
US-09-989-545-10

  Query Match             68.2%;  Score 737.5;  DB 9;  Length 200;
  Best Local Similarity   69.3%;  Pred. No. 9.4e-67;
  Matches  138;  Conservative   20;  Mismatches   40;  Indels    1;  Gaps    1;

Qy      1 MKSGLWYFFLFCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQ 60
          ||    : |:||  |::|||||||||:: || |||||||| ||||: ||| ||:| :  :
L       1 MKPYFCHVFVFCFLIRLLTGEINGSADHRMFSFHNGGVQISCKYPETVQQLKMRLFRERE 60

Qy     61 ILCDLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPFK 120
          :||:|||||||| ||||:   |   |||||||||| | | |  :||||:|||||||||:
Db     61 VLCELTKTKGSGNAVSIKNPMLCLYHLSNNSVSFFLNNPDSSQGSYYFCSLSIFDPPPFQ 120

Qy    121 V-TLTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGE 179
           |:|||||||||||||||| |||:|||||||| : ||||| | :|||| ||||||| |
Db    121 ERNLSGGYLHIYESQLCCQLKLWLPVGCAAFVVVLLFGCILIIWFSKKKYGSSVHDPNSE 180

Qy    180 YMFMRAVNTAKKSRLTDVT 198
          |||| |||| |||||  ||
Db    181 YMFMAAVNTNKKSRLAGVT 199


RESULT 9
US-10-107-868-14
; Sequence 14, Application US/10107868
; Patent No. US20020156242A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;  APPLICANT:  Tezuka, Katsunari
;  TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
;  TITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
;  CURRENT APPLICATION NUMBER: US/10/107,868
;  CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: 09/561,308
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: US 09/383,551
;  PRIOR FILING DATE: 1999-08-26
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-107-868-14

  Query Match             66.8%;  Score 722.5;  DB 9;  Length 200;
  Best Local Similarity   68.3%;  Pred. No. 3e-65;
  Matches  136;  Conservative   20;  Mismatches   42;  Indels    1;  Gaps    1;

Qy      1 MKSGLWYFFLFCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQ 60
          ||    : |:||  |::|||||||||:: || |||||||| ||||: ||| ||:| :  :
Db      1 MKPYFCHVFVFCFLIRLLTGEINGSADHRMFSFHNGGVQISCKYPETVQQLKMRLFRERE 60

Qy     61 ILCDLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPFK 120
          :||:|||||||| ||||:   |   |||||||||| | | |  :||||:|||||||||:
Db     61 VLCELTKTKGSGNAVSIKNPMLCLYHLSNNSVSFFLNNPDSSQGSYYFCSLSIFDPPPFQ 120

Qy    121 V-TLTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGE 179
           |:|||||||||||||||| |||:|||||||| : ||||| | :|||| ||||||| |
Db    121 ERNLSGGYLHIYESQLCCQLKLWLPVGLPAFVVVLLFGCILIIWFSKKKYGSSVHDPNSE 180

Qy    180 YMFMRAVNTAKKSRLTDVT 198
          |||| |||| |||||  ||
Db    181 YMFMAAVNTNKKSRLAGVT 199


RESULT 10
US-10-107-828-14
; Sequence 14, Application US/10107828
; Patent No. US20020115831A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;  APPLICANT:  Tezuka, Katsunari
;  TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
;  TITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
;  CURRENT APPLICATION NUMBER: US/10/107,828
;  CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: US/09/561,308B
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-107-828-14

  Query Match             66.8%;  Score 722.5;  DB 12;  Length 200;
  Best Local Similarity   68.3%;  Pred. No. 3e-65;
  Matches  136;  Conservative   20;  Mismatches   42;  Indels    1;  Gaps    1;

Qy      1 MKSGLWYFFLFCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQ 60
          ||    : |:||  |::|||||||||:: || |||||||| ||||: ||| ||:| :  :
Db      1 MKPYFCHVFVFCFLIRLLTGEINGSADHRMFSFHNGGVQISCKYPETVQQLKMRLFRERE 60

Qy     61 ILCDLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPFK 120
          :||:|||||||| ||||:   |   |||||||||| | | |  :||||:|||||||||:
Db     61 VLCELTKTKGSGNAVSIKNPMLCLYHLSNNSVSFFLNNPDSSQGSYYFCSLSIFDPPPFQ 120

Qy    121 V-TLTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGE 179
           |:|||||||||||||||| |||:|||||||| : ||||| | :|||| ||||||| |
Db    121 ERNLSGGYLHIYESQLCCQLKLWLPVGLPAFVVVLLFGCILIIWFSKKKYGSSVHDPNSE 180

Qy    180 YMFMRAVNTAKKSRLTDVT 198
          |||| |||| |||||  ||
Db    181 YMFMAAVNTNKKSRLAGVT 199


RESULT 11
US-10-107-907-14
; Sequence 14, Application US/10107907
; Patent No. US20020151685A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;  APPLICANT:  Tezuka, Katsunari
;  TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
;  TITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
;  CURRENT APPLICATION NUMBER: US/10/107,907
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;  CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: 09/561,308
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Mus musculus
US-10-107-907-14

  Query Match             66.8%;  Score 722.5;  DB 12;  Length 200;
  Best Local Similarity   68.3%;  Pred. No. 3e-65;
  Matches  136;  Conservative   20;  Mismatches   42;  Indels    1;  Gaps    1;

        1 MKSGLWYFFLFCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQ 60
          ||    : |:||  |::||||||||||:: || |||||||| |||| ||| ||:| :  :
Db      1 MKPYFCHVFVFCFLIRLLTGEINGSADHRMFSFHNGGVQISCKYPETVQQLKMRLFRERE 60

Qy     61 ILCDLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPFK 120
          :||:|||||||||+ ||||:   |   |||||||||| | | |  :||||:|||||||||:
Db     61 VLCELTKTKGSGNAVSIKNPMLCLYHLSNNSVSFFLNNPDSSQGSYYFCSLSIFDPPPFQ 120

Qy    121 V-TLTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGE 179
           |:|||||||||||||||| |||:|  ||||| : ||||| | :|||| |||||||| |
Db    121 ERNLSGGYLHIYESQLCCQLKLWLPVGLPAFVVVLLFGCILIIWFSKKKYGSSVHDPNSE 180

Qy    180 YMFMRAVNTAKKSRLTDVT 198
          |||| |||| ||||| ||
Db    181 YMFMAAVNTNKKSRLAGVT 199


RESULT 12
US-10-107-868-13
; Sequence 13, Application US/10107868
; Patent No. US20020156242A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;  APPLICANT:  Tezuka, Katsunari
;  TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
;  TITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
   CURRENT APPLICATION NUMBER: US/10/107,868
   CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: 09/561,308
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: US 09/383,551
;  PRIOR FILING DATE: 1999-08-26
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-107-868-13

  Query Match             64.8%;  Score 701;  DB 9;  Length 200;
  Best Local Similarity   67.9%;  Pred. No. 4.3e-63;
  Matches  133;  Conservative   17;  Mismatches   42;  Indels    4;  Gaps    2;

Qy      7 YF---FLFCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQILC 63
             ||   |:||  ||:||||:|  ||: || ||:||||| | ||: ||| |||| |  ::||
Db      4 YFSCVFVFCFLIKLLTGELNDLANHRMFSFHDGGVQISCNYPETVQQLKMQLFKDREVLC 63

Qy     64 DLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF-KVT 122
          |||||||||||||||:   |  |||||||||| | | |  :|: |:|||||||| :
Db     64 DLTKTKGSGNTVSIKNPMSCPYQLSNNSVSFFLDNADSSQGSYFLCSLSIFDPPPFQEKN 123

Qy    123 LTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGEYMF 182
          |:|||| |||||||||| |||:||||||   : ||| | |  |||| ||||||| ||||
Db    124 LSGGYLLIYESQLCCQLKLWLPVGCAAFVAALLFGCIFIVWFAKKKYRSSVHDPNSEYMF 183

Qy    183 MRAVNTAKKSRLTDVT 198
          | |||| |||||  :|
Db    184 MAAVNTNKKSRLAGMT 199


RESULT 13
US-10-107-828-13
; Sequence 13, Application US/10107828
; Patent No. US20020115831A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;  APPLICANT:  Tezuka, Katsunari
;  TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
;  TITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
;  CURRENT APPLICATION NUMBER: US/10/107,828
;  CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: US/09/561,308B
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-107-828-13

  Query Match             64.8%;  Score 701;  DB 12;  Length 200;
  Best Local Similarity   67.9%;  Pred. No. 4.3e-63;
  Matches  133;  Conservative   17;  Mismatches   42;  Indels    4;  Gaps    2;

Qy      7 YF---FLFCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQILC 63
             ||   |:||  ||:||||:|  ||: || ||:||||| | ||: ||| |||| |  ::||
Db      4 YFSCVFVFCFLIKLLTGELNDLANHRMFSFHDGGVQISCNYPETVQQLKMQLFKDREVLC 63

Qy     64 DLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF-KVT 122
          |||||||||||||||:   |  |||||||||| | | |  :|: |:|||||||| :
Db     64 DLTKTKGSGNTVSIKNPMSCPYQLSNNSVSFFLDNADSSQGSYFLCSLSIFDPPPFQEKN 123

Qy    123 LTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGEYMF 182
          |:|||| |||||||||| |||:||||||   : ||| | |  |||| ||||||| ||||
Db    124 LSGGYLLIYESQLCCQLKLWLPVGCAAFVAALLFGCIFIVWFAKKKYRSSVHDPNSEYMF 183

Qy    183 MRAVNTAKKSRLTDVT 198
          | |||| |||||  :|
Db    184 MAAVNTNKKSRLAGMT 199


RESULT 14
US-10-107-907-13
; Sequence 13, Application US/10107907
; Patent No. US20020151685A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;  APPLICANT:  Tezuka, Katsunari
;  TITLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
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;  TITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
;  CURRENT APPLICATION NUMBER: US/10/107,907
;  CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: 09/561,308
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
;   LENGTH: 200
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-107-907-13

    ery Match             64.8%;  Score 701;  DB 12;  Length 200;
  Best Local Similarity   67.9%;  Pred. No. 4.3e-63;
  Matches  133;  Conservative   17;  Mismatches   42;  Indels    4;  Gaps    2;

Qy       7 YF---FLFCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQILC 63
           ||   |:||  ||:||||:|  ||: || ||:|||| | ||: ||| |||| |  ::||
Db       4 YFSCVFVFCFLIKLLTGELNDLANHRMFSFHDGGVQISCNYPETVQQLKMQLFKDREVLC 63

Qy      64 DLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF-KVT 122
           ||||||||||||||:   |  ||||||||||| | | |  :|: |:|||||||| :
Db      64 DLTKTKGSGNTVSIKNPMSCPYQLSNNSVSFFLDNADSSQGSYFLCSLSIFDPPPFQEKN 123

Qy     123 LTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGEYMF 182
           |:|||| |||||||||| |||:||||||   : ||| | |  |||| ||||||| ||||
Db     124 LSGGYLLIYESQLCCQLKLWLPVGCAAFVAALLFGCIFIVWFAKKKYRSSVHDPNSEYMF 183

Qy     183 MRAVNTAKKSRLTDVT 198
           | |||| |||||  :|
Db     184 MAAVNTNKKSRLAGMT 199


RESULT 15
US-10-107-868-15
; Sequence 15, Application US/10107868
; Patent No. US20020156242A1
; GENERAL INFORMATION:
;  APPLICANT: Tamatani, Takuya
;   PLICANT:  Tezuka, Katsunari
;    TLE OF INVENTION: CELL SURFACE MOLECULE MEDIATING CELL
;  ITLE OF INVENTION:  ADHESION AND SIGNAL TRANSMISSION
;  FILE REFERENCE: 06501-039002
;  CURRENT APPLICATION NUMBER: US/10/107,868
;  CURRENT FILING DATE:  2002-03-26
;  PRIOR APPLICATION NUMBER: 09/561,308
;  PRIOR FILING DATE: 2000-04-28
;  PRIOR APPLICATION NUMBER: US 09/383,551
;  PRIOR FILING DATE: 1999-08-26
;  PRIOR APPLICATION NUMBER: PCT/JP98/00837
;  PRIOR FILING DATE: 1998-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 09-62290
;  PRIOR FILING DATE: 1997-02-27
;  PRIOR APPLICATION NUMBER: JAPAN 10-62217
;  PRIOR FILING DATE: 1998-02-26
;  NUMBER OF SEQ ID NOS: 26
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 15
;   LENGTH: 216
;   TYPE: PRT
;   ORGANISM: Rattus norvegicus
US-10-107-868-15

  Query Match             64.3%;  Score 696;  DB 9;  Length 216;
  Best Local Similarity   68.8%;  Pred. No. 1.5e-62;
  Matches  132;  Conservative   16;  Mismatches   40;  Indels    4;  Gaps    2;

Qy       7 YF---FLFCLRIKVLTGEINGSANYEMFIFHNGGVQILCKYPDIVQQFKMQLLKGGQILC 63
           ||   |:||  ||:||||:|  ||: || ||:|||| | ||: ||| |||| |  ::||
Db       4 YFSCVFVFCFLIKLLTGELNDLANHRMFSFHDGGVQISCNYPETVQQLKMQLFKDREVLC 63

Qy      64 DLTKTKGSGNTVSIKSLKFCHSQLSNNSVSFFLYNLDHSHANYYFCNLSIFDPPPF-KVT 122
           ||||||||||||||:   |  ||||||||||| | | |  :|: |:|||||||| :
Db      64 DLTKTKGSGNTVSIKNPMSCPYQLSNNSVSFFLDNADSSQGSYFLCSLSIFDPPPFQEKN 123

Qy     123 LTGGYLHIYESQLCCQLKFWLPIGCAAFVVVCILGCILICWLTKKKYSSSVHDPNGEYMF 182
           |:|||| |||||||||| |||:||||||   : ||| | |  |||| ||||||| ||||
Db     124 LSGGYLLIYESQLCCQLKLWLPVGCAAFVAALLFGCIFIVWFAKKKYRSSVHDPNSEYMF 183

Qy     183 MRAVNTAKKSRL 194
           | |||| |||||
Db     184 MAAVNTNKKSRL 195


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